

State of California Renewable Energy Programs

5/03/02

Program by Sector	Geographic Area Served	Role					Status	Comments
		CEC	CPUC	CPA	DWR	Other		Description & Eligibility (Funding)
Customer-Side								
Public School Solar PV Program	Statewide	Technical Lead		Lead - Financing			Proposed Q3 '02	Fund expected to grow as settlements reached. Will be combo of grants and loans. (Attorney General created fund from contract settlements. CPA)
Tax-Exempt Industrial Development Bonds for Efficiency & Clean Energy	Statewide	Technical Support		Lead - Financing		CDLAC authorized & CDFAC IDB bond guidance	Launched 4/02	\$30 million allocation for 2002, available to small manufacturers with <\$10 million near-term capital investment in city/county
Residential Solar PV Turnkey Installation	Statewide	Technical support		Lead - Financing			Proposed	Program will modify SMUD-type program statewide, working with multiple partners. Seeks economies of scale to wean buyers off public subsidies. Muni utilities, local government, private parties (CPA)
CPA Public Agency Loan Pool	Statewide	Technical Support	Considering utility bill repayment mechanism	Lead - Financing			Lending expected Q3 '02	Loans for larger projects > \$2 million to tens of millions. Will include efficiency, distributed generation, solar. Initial loans \$50 million +. Statewide pool reduces issue & admin costs. (CPA)
Customer-Side Renewable Resources Account (Customer Credit Fund)	Statewide	Lead					Payments suspended pending passage of SB 530 to extend program funding	Provides rebates to customers who purchase renewable electricity from registered electric service providers through direct access contracts. Funded through IOU PGC (\$75.6 million over 4 years) with proposed additional \$67.5 million over 5 years under SB 530.
California State Solar Energy System Tax Credit	Statewide	Consult				Franchise Tax Board	Ongoing	Can be used by taxpayers against their net tax in an amount equal to the lesser of 15% (7.5% between 12/03 and 12/05) of the cost paid for the purchase and installation of a solar or wind energy system sized up to 200 kW, after deducting the value of any municipal, state, or federal sponsored financial incentives, or \$4.50 per rated watt of the system.

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Emerging Renewable Buydown Program	Statewide	Lead					Ongoing: 2,500 installed systems (9 MW); additional 10 MW in pipeline	Provides capital cost buydowns to install emerging renewable technologies (PV, small wind, solar thermal electric, fuel cells using renewable fuel) on-site to offset customer's own load. Residential, industrial, commercial applications. Funded through IOU PGC/General Fund (\$92 million/\$8 million over 4 years) with proposed additional \$101.25 million over 5 years under SB 530.
Renewable Energy Consumer Education	Statewide	Lead					Ongoing. Public Awareness Campaign through 12/02.	Educates consumers about renewable energy options and the benefits of supporting renewable energy. Funds dispersed through grants and contracts to public, private, non-profit and other entities for consumer education activities. Funded through IOU/PGC; \$5.4 million over first 4 years/ \$16.875 million over 5 years under SB 530.
Solar Energy and Distributed Generation Grant Program	Statewide	Lead					Annually appropriated in State Budget Act. \$750K available (+ \$100K from previous year) for applications received by 6/28/02.	Provides grants to California residents to offset the cost of purchasing and installing new solar energy and distributed generation systems. Funds available first come/first served until funds exhausted.
Dairy Power Production Program	Statewide	Lead					Ongoing	Provides grants to qualifying dairies to install biogas to electricity systems. \$10 million available. (SB5X)
Distributed Generation Incentives Program	IOU Service Areas		Lead					Provides financial incentives to install DG. Waives certain charges for renewable DG (Ratepayers.)

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Supply-Side								
New Centralized Renewables-- Renewable LOIs	IOU Service Areas			Lead - Financing	Potential recipient of power		By 2006--1,250 MW nonfirm or 450 MW firm	CPA would either own facility or buy the output in near-term and sell energy to either DWR or the IOUs. PUC procurement policy and possible RPS legislation will affect CPA approach. Project scale -- \$1.8 billion.
Existing Renewables Resources Account	Statewide	Lead					4,400 MW of existing capacity supported through transition period; payments suspended pending passage of SB 530 to extend program funding.	Pays cents/kWh production incentives to renewable generators on-line before 9-96 when market prices for energy are below a pre-set target price. Funded by IOU PGC (\$243 million over 4 years) with proposed additional \$135 million over 5 years under SB 530.
New Renewables Resources Account	Statewide	Lead		Possible financing role			201 MW (35 projects) on-line and receiving incentives; additional 1,100 MW to be funded once on-line	Pays cents/kWh production incentives to new generating facilities for first five years of operation. Funds have been conditionally awarded to projects totaling 1,300 MW capacity. Funded through IOU PGC (\$242 million over four years) with proposed additional \$337.5 million over 5 years under SB 530. For those CEC auction winners that also have a signed LOI w/CPA, CPA is working to find buyer for output to enable plant to get online and thereby begin receiving production incentive.
New Centralized Renewables-- Municipal Utilities	Municipal utility service territories			Lead - Financing			By 2006--100 MW	CPA tax-exempt financing of renewable projects to provide power to municipally-owned systems. Project scale -- \$144 million.
Existing Centralized Renewables-- Biomass	IOU Service Areas			Lead	Potential recipient of power		Currently maintaining online status via 90-day DWR contracts brokered by CPA.	Approximately 150 MW. Some facilities were CEC funding recipients.

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Agricultural Biomass-to-Energy Grant Program						California Trade and Commerce Agency/ Local Air Districts	Ends June 30, 2002	Provides grants to biomass generators of up to \$10 per green ton of agricultural biomass converted to energy.
CPA Public Agency Loan Pool	Statewide	Technical Support	Considering utility bill repayment mechanism	Lead - Financing			Lending expected Q3 '02	Loans for larger projects > \$2 million to tens of millions. Will include efficiency, distributed generation, solar. Initial loans \$50 million +. Statewide pool reduces issue & admin costs. (CPA)

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All or Multiple Sectors								
Public Interest Energy Research - Renewables Component	Statewide	Lead					Ongoing	Provides funding for research and development activities to minimize costs and maximize benefits of renewable energy technologies. Funded through IOU PGC (\$62.5 million per year for 4 years) with proposed additional \$62.5 million per year for 5 years under SB 530.
Geothermal Program (GRDA)	Statewide	Lead					Ongoing-Approx. \$2 million/yr	Research, Development, Commercialization, Planning and Mitigation projects related to geothermal energy
Renewable Energy R&D	Statewide	Lead					Ongoing. \$52 million to date	Research into renewable energy technologies that help make electricity more affordable, diverse, more reliable, cleaner and safer with enhanced customer choice (PIER Renewables)

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Funding Sources Key:				
CPA	California Power Authority bond financing			
DOE	U.S. Department of Energy Grants			
ECAA	CEC's Energy Conservation Assistance Account			
ERPA	CEC's Electricity Resource Procurement Account collected from all ratepayers			
GF	General Fund -one time funding			
LJA	CEC's Local Jurisdiction Account (PVEA)			
PGC	PUC's and Muni's Public Goods Charge collected from ratepayers by utilities			
PVEA	Petroleum Violation Escrow Account			
Ratepayers	PUC directed funding collected from SCE, PG&E, SDG&E and SoCalGas (energy efficiency programs only) ratepayers			